

Serial No. 10/056127

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

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Tung Ching Chiang**

Case: **14-8**

Serial No.: **10/056127**

Filing Date: **January 24, 2002**

Examiner: Group Art Unit: **2681**

Title: **Geolocation Using Enhanced Timing Advance Techniques**

**ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D. C. 20231**


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Transmitted herewith are nine (9) sheets of formal drawings to be substituted for the informal drawings initially filed in the above-identified application for patent.

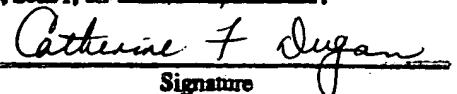
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Respectfully,
Byron Hua Chen
Tung Ching Chiang

By 
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Date: 04/25/02
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FIG. 1

PRIOR ART

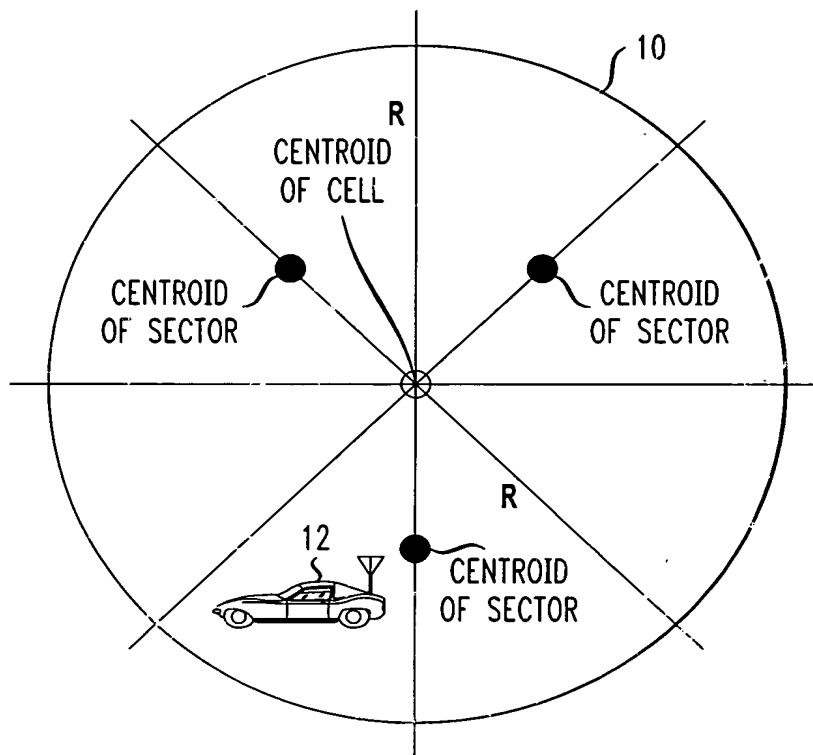


FIG. 2

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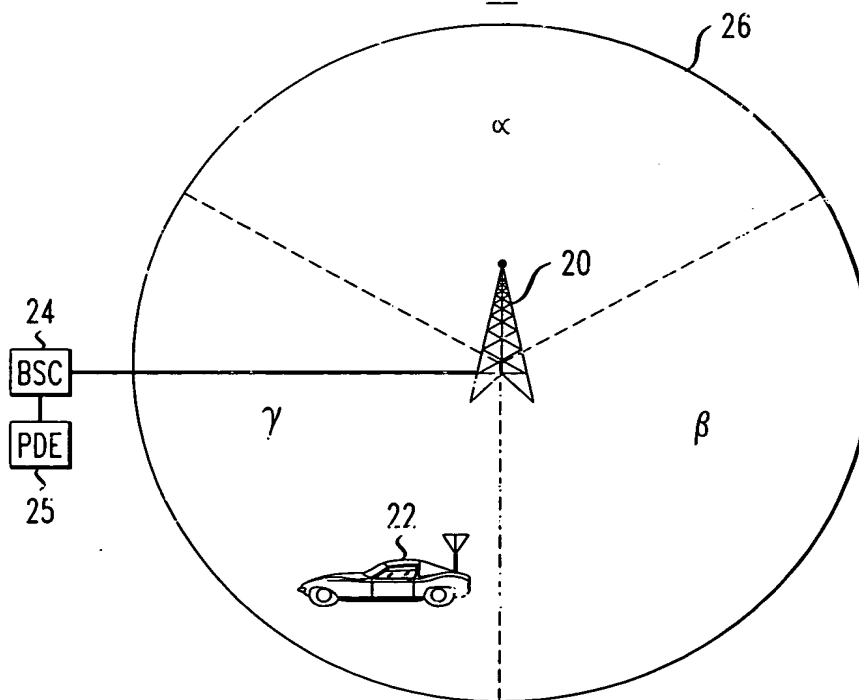
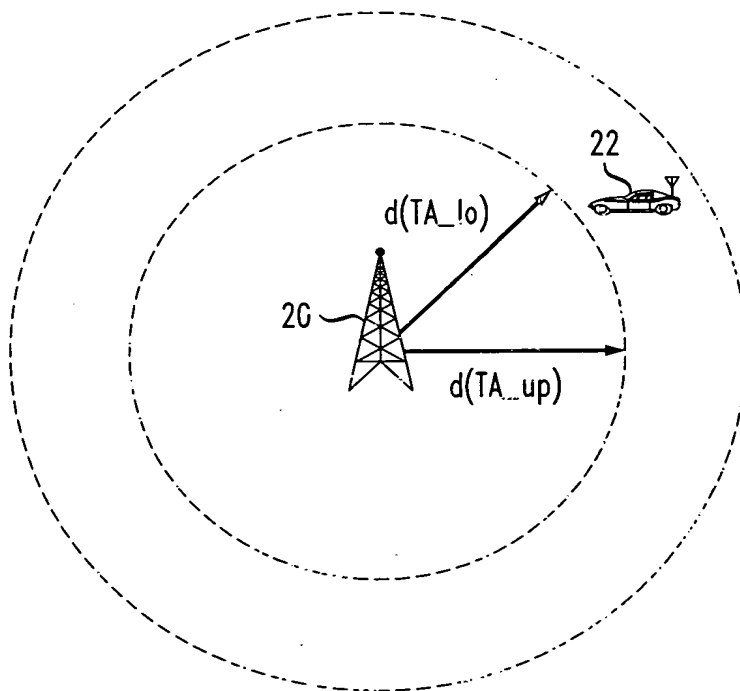


FIG. 3

TIMING ADVANCE (TA) IN GSM

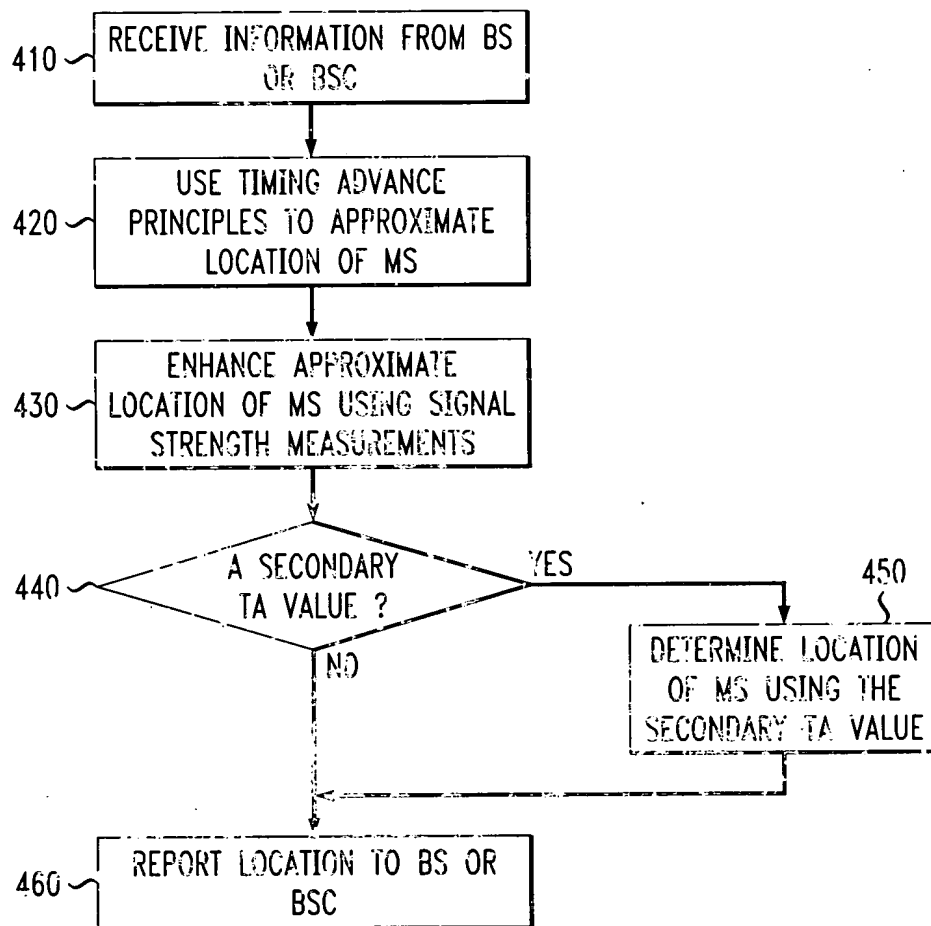


TA RESOLUTION:
 $T/2 = 24/13 \mu s$, OR 554 m
MEASURED IN ONE-WAY-DELAY

TA RANGE:
0-63, OR 0-219 IF
EXTENDED TA IS SUPPORTED

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FIG. 4

400

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FIG. 5

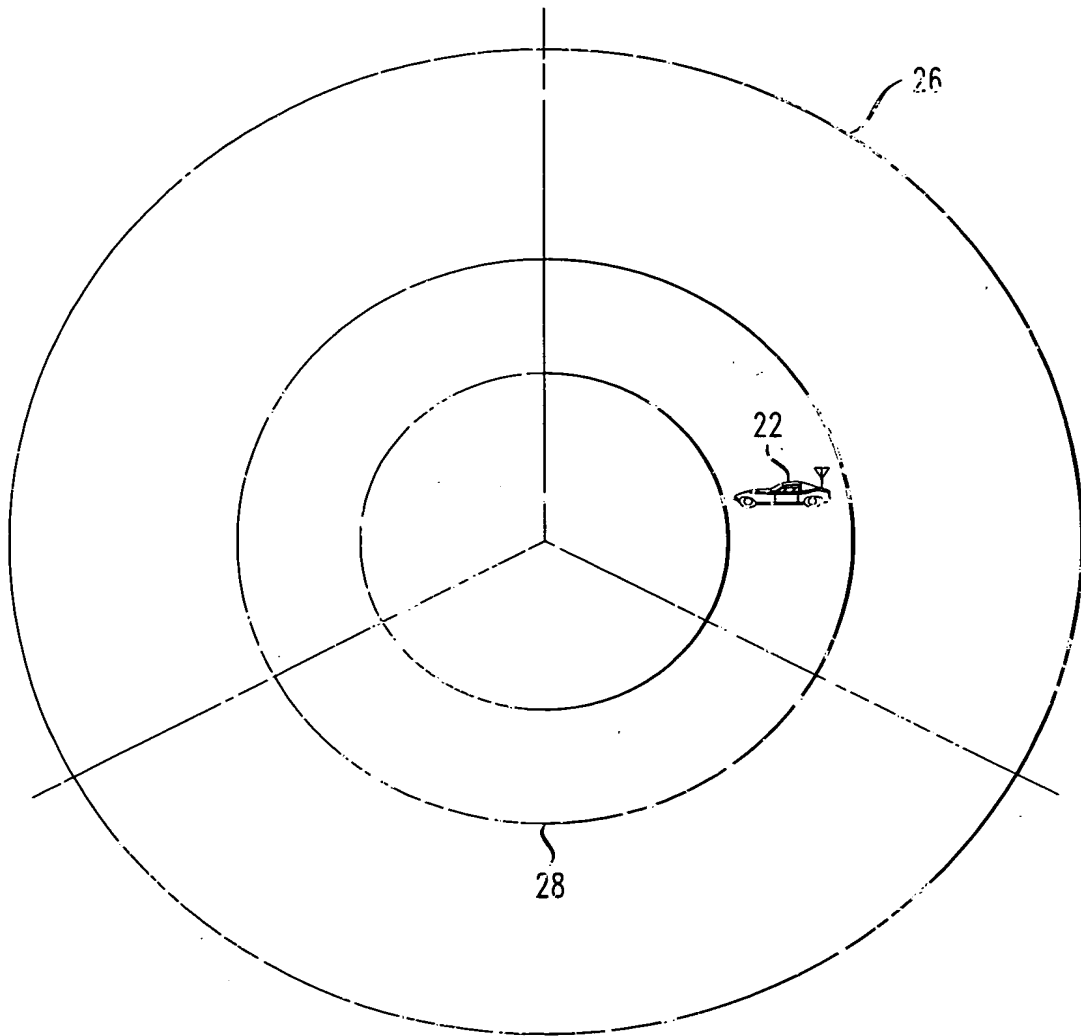
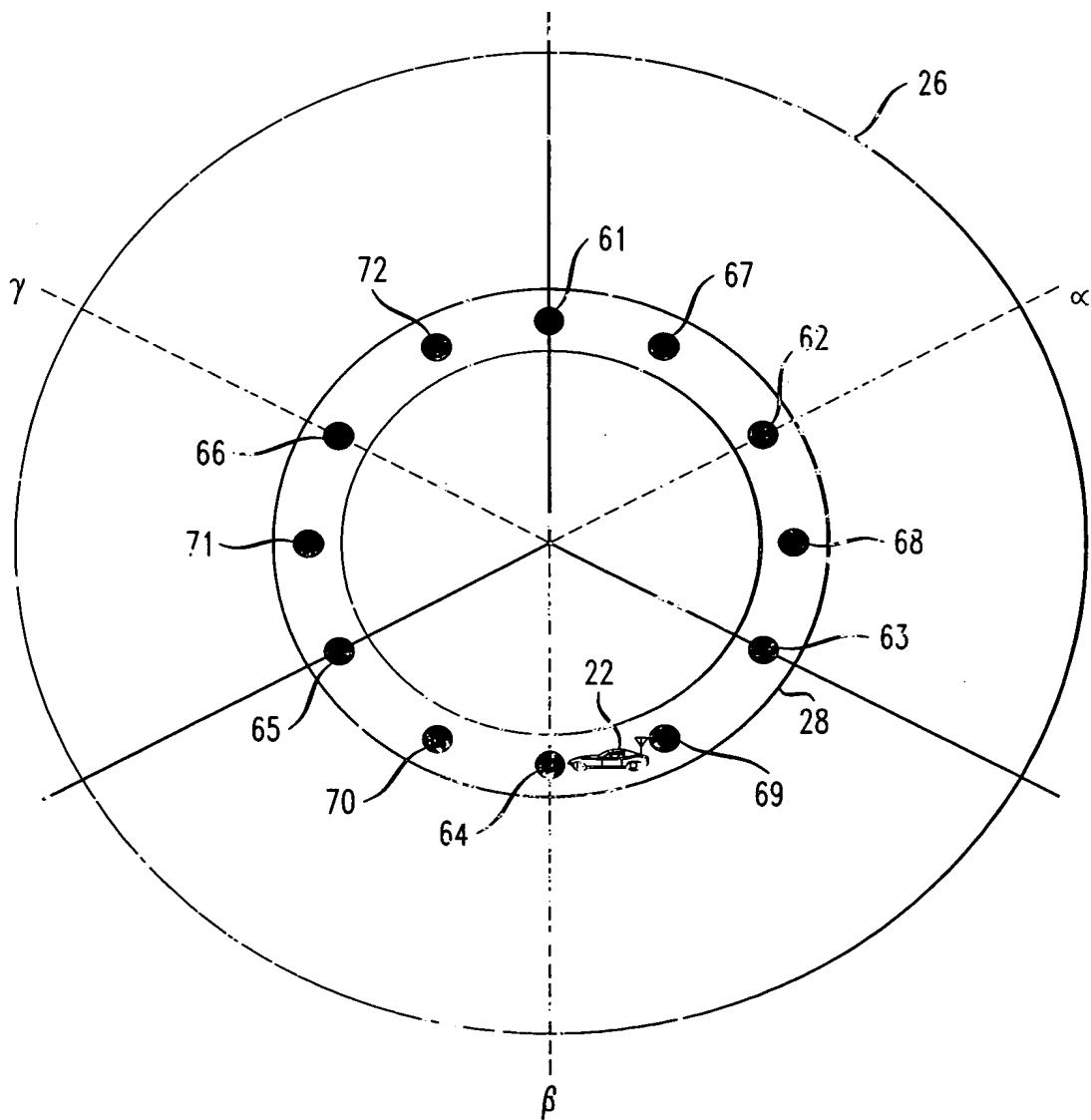
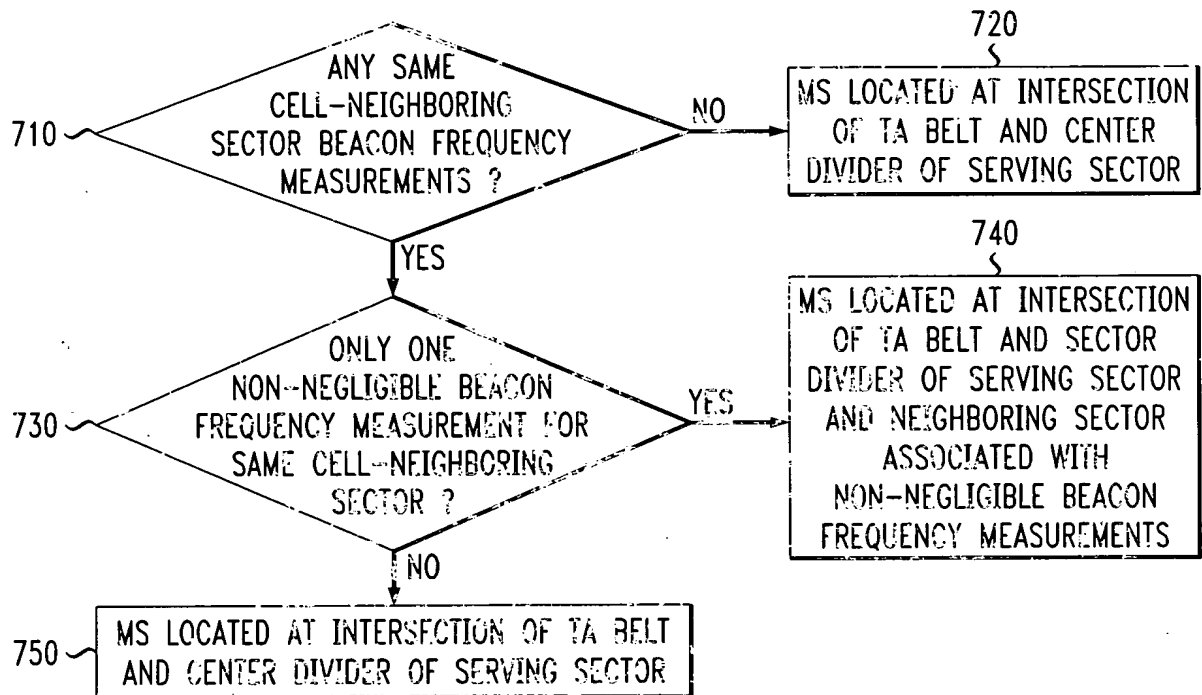


FIG. 6



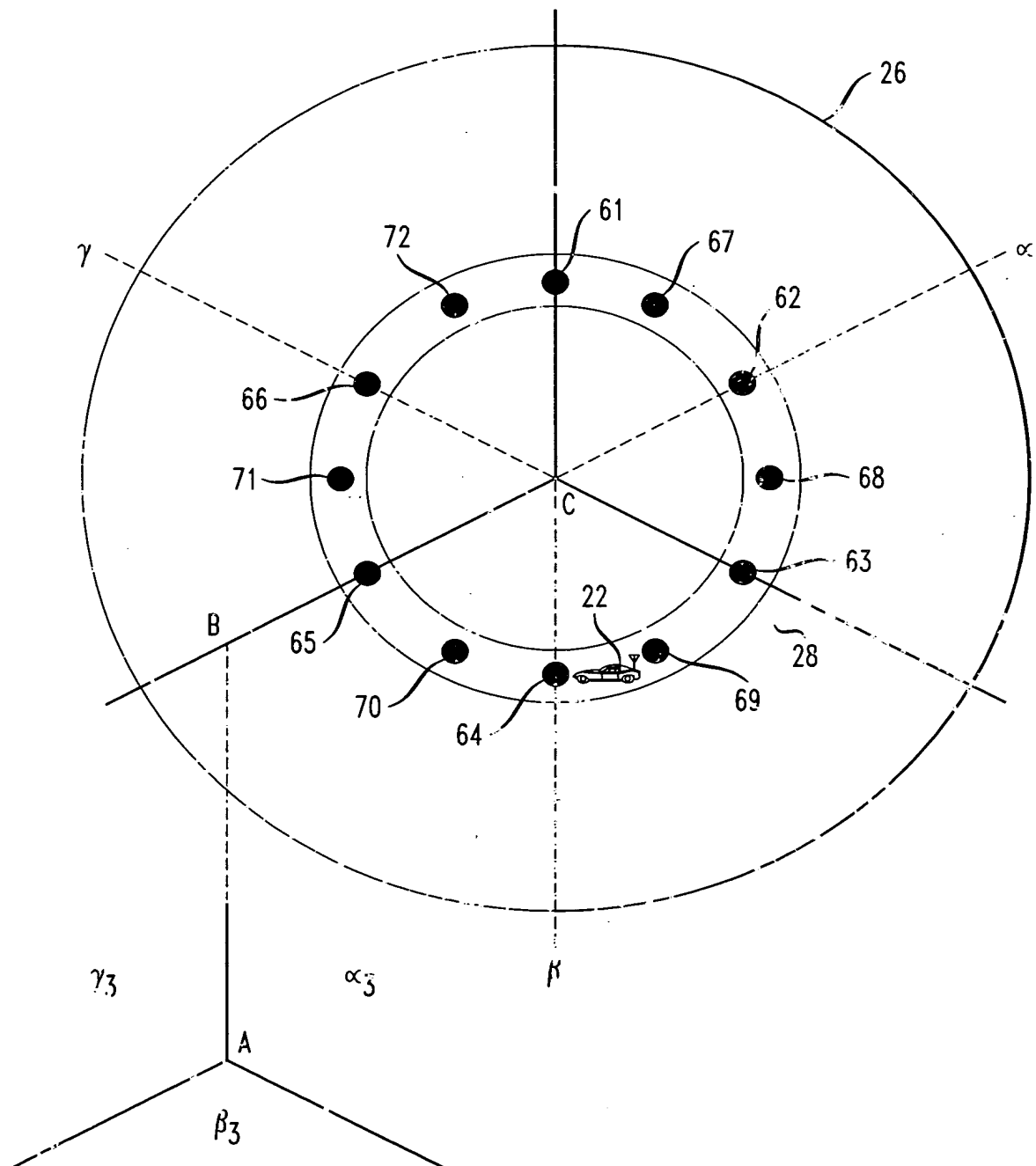
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FIG. 7

700

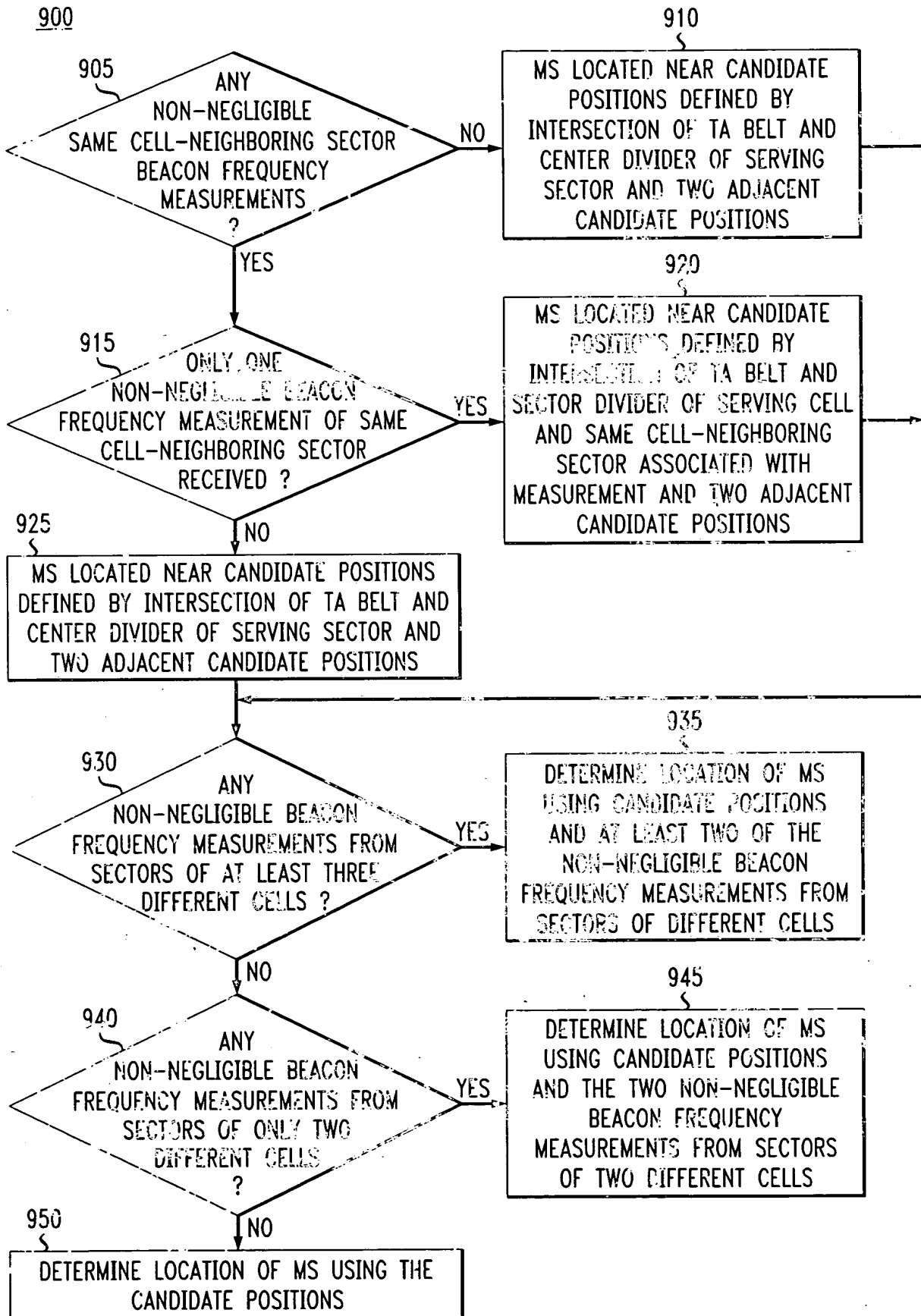
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FIG. 8



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FIG. 9



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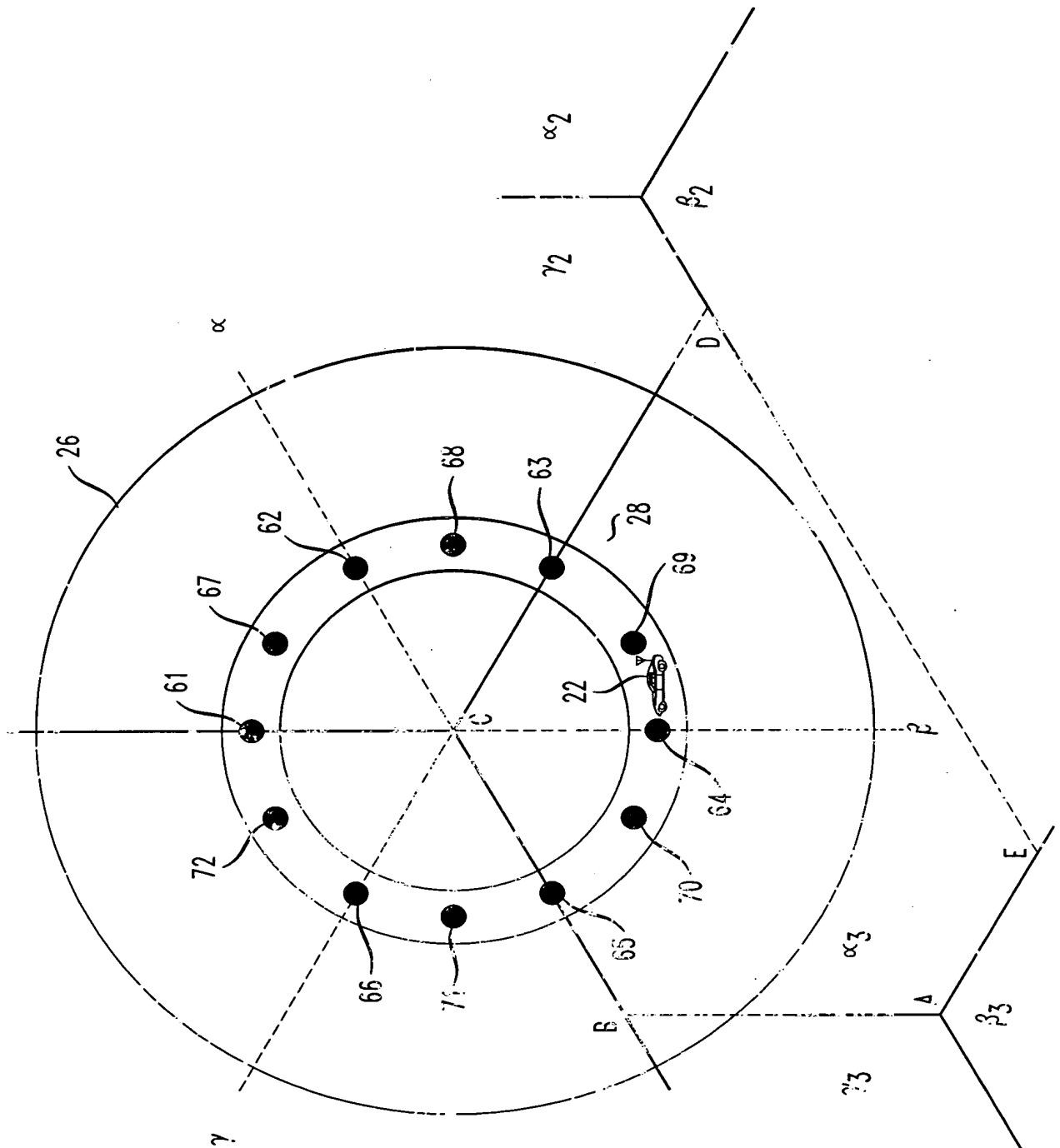


FIG. 10